

## FIGURE 1A

### NUCLEOTIDE SEQUENCE OF NS2/3 (810-1206) st (SEQ ID. No. 1)

atggaccggg agatggctgc atcgtgcgga ggcgcggttt tcataggtct tgcactcttg  
accttgtcac catactataa agtgctcctc gctaggctca tatggtgggt acagtattta  
atcaccagag tcgaggcgca cttgcaagtg tggatcccc ctctcaatgt tcggggaggc  
cgcgatgcca tcatcctcct cacgtgcgca gtccaccag agctaactct tgacatcacc  
aaactcctgctcgccatattcggtccgctcatggtgctccaggcaggcataaccaaagtgccgtac  
ttcgtgcgtg cgcaggggct cattcgtgcg tgtatgttg tgcggaaggc tgcggggggt  
cattatgtcc aaatggcctt catgaagcta gctgcgctga caggtagcga cgtttatgac  
catctcactc cattgcagga ttgggccac gcgggcctac gagacctgc agtggcgga  
gagcccgta tcttctctga catggaggtc aagatcatca cctggggggc ggacaccgcg  
gcatgcgggg acatcatttc aggtctgccc gtctccgctc gaaggggaag ggagatactc  
ctgggaccgg ccgataattt tgaagggcag ggggtggcag tccttgcgcc catcacggcc  
tactcccaac agacacgggg cctacttggt tgcatcatca ccagcctcac aggcggggac  
aagaaccagg tcgaggggga ggttcaagtg gtctccaccg ctacacaatc tttcctggcg  
acctgcgtca acggcgtgtg ttggactgtc ttccatggcg ccggctcaa gaccttggcc  
ggcccaaaag gcccaatcac ccagatgtac actaatgtgg accaggacct cgtcggctgg  
caggcgcccc ctggggcgcg ctccatgaca ccatgcacct gcggcagctc ggacctctat  
ttggtcacga gacatgccga cgtcattccg gtgcgcgggc ggggcgacag tagggggagc  
ctgctctccc ccaggcctgt ctctacttg aagggtctct cgggtggccc actgctctgc  
ccttcggggc acgttgtggg catcttcgg gctgctgtgt gcaccgggg ggttgcaaaa  
gcggtggact tcataacctg tgagtctatg gaaactacca tgcggactag tagcgcttgg  
cgtcaccgcg agttcgggtg t

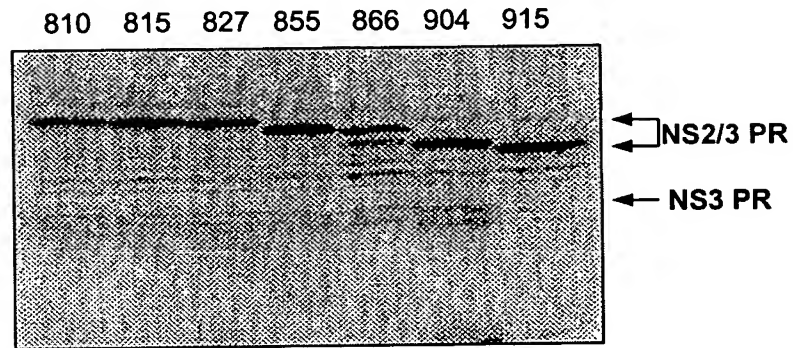
## FIGURE 1B

### AMINO ACID SEQUENCE OF NS2/3 (810-1206)-st (SEQ ID NO. 2)

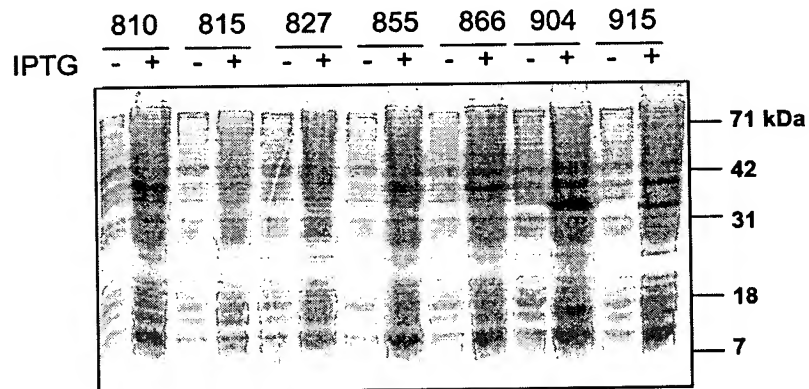
MDREMAASCG GAVFIGLALL TLSPYYKVELL ARLIWLQYL ITRVEAHLQV WIPPLNVRGG RDAIILLTCA  
VHPELIFDIT KLLLAIFGPL MVLQAGITKV PYFVRAQLI RACMLVRKAA GGHYVQMAFM KLAALTGTIV  
YDHLTPLQDW AHAGLRDLAV AVEPVIFSDM EVKIITWGAD TAACGDIISG LPVSARRGRE ILLGPADNFE  
GQGWRLAPI TAYSQQTRGL LGCIITSLTG RDKNQVEGEV QVSTATQSF LATCVNGVCW TVFHGAGSKT  
LAGPKGPITQ MYTNVDQLV GWQAPPGARS MTPCTCGSSD LYLVTNRHADV IPVRRRGDSR GSLLSPRPVS  
YKGSSEGGPL LCPSGHAVGI FRAAVCTRGV AKAVDFIPVE SMETTMRTSS AWRHPQFGG

**FIGURE 2**

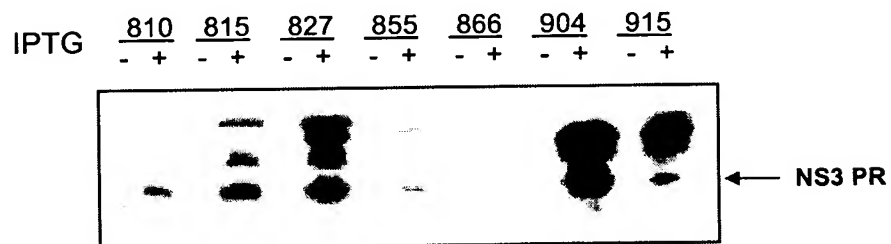
**A. *in vitro* translated N-terminal deletion mutants**



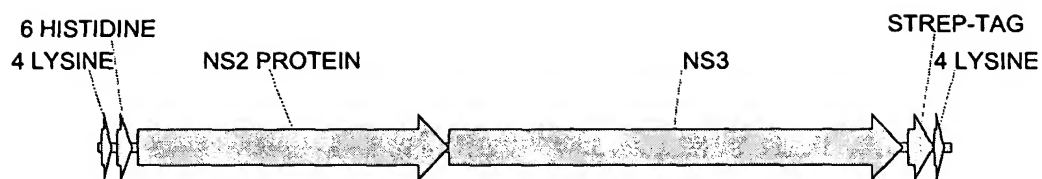
**B. *E. coli* expression - SDS-PAGE**



**C. *E. coli* expression - Immunoblot with anti-NS3**

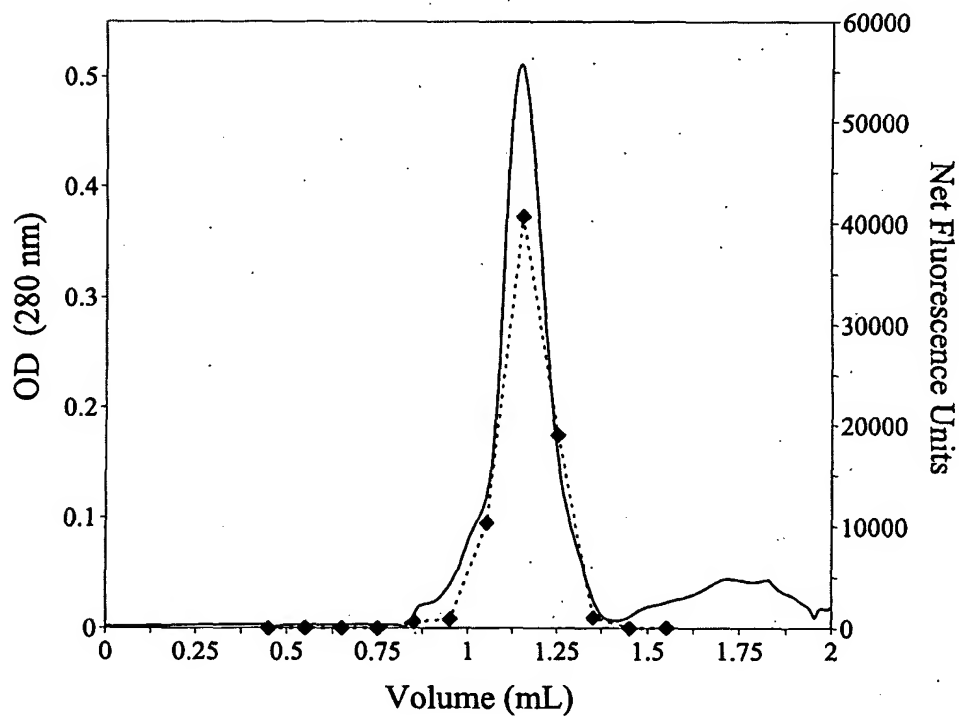


**FIGURE 3**

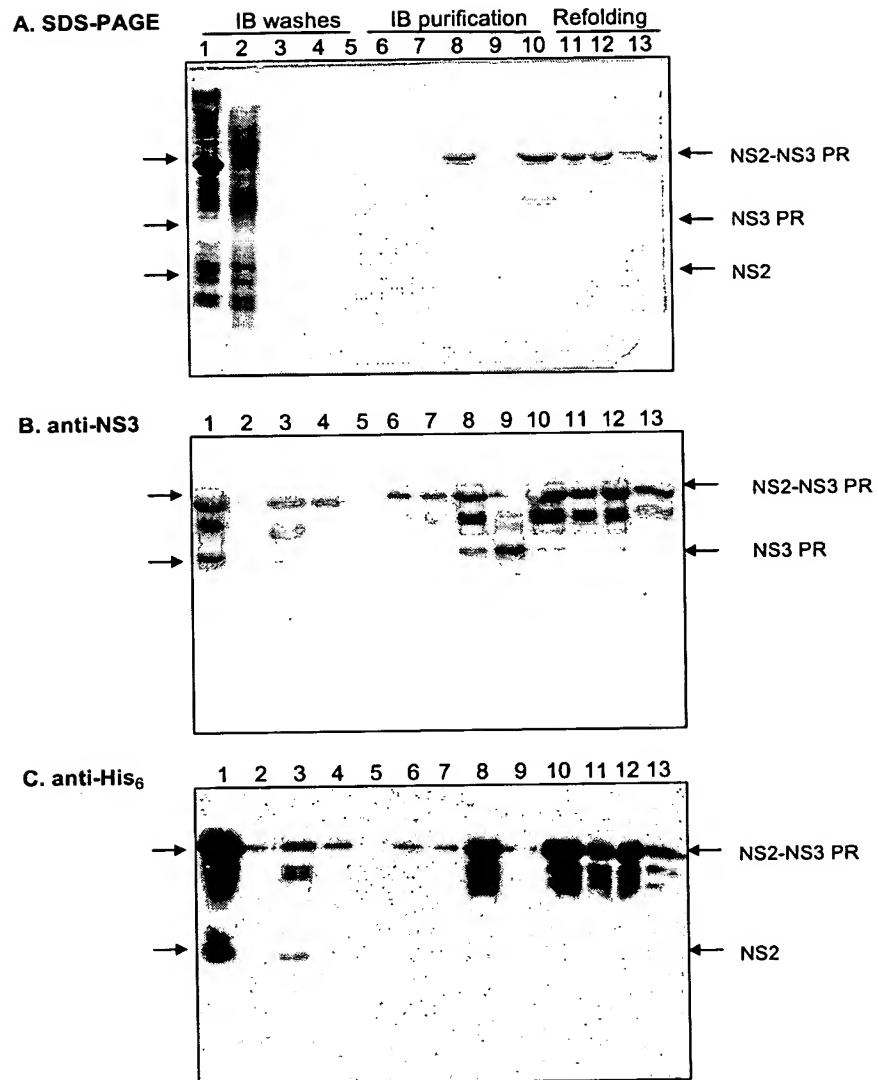


**4k 6H NS2/3(904-1206)-ST-4K**

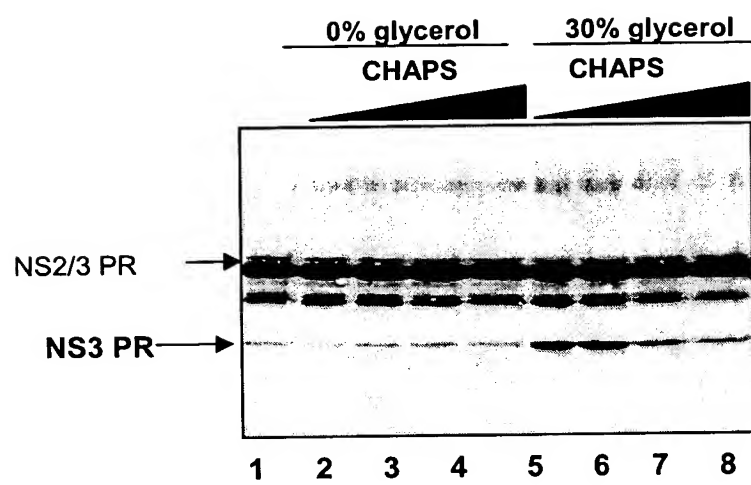
**FIGURE 4**



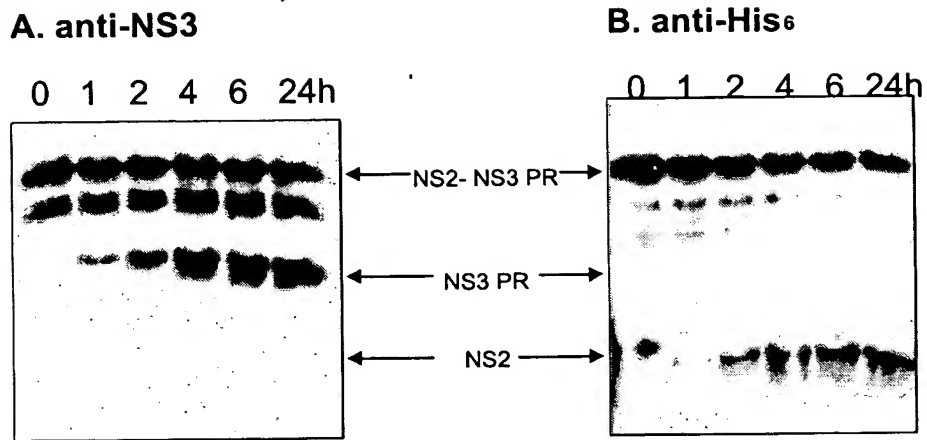
**FIGURE 5**



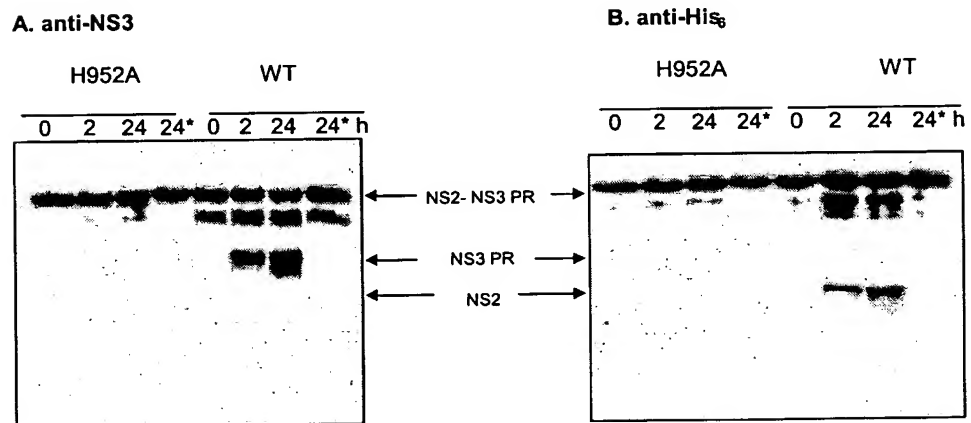
**FIGURE 6**



**FIGURE 7**



**FIGURE 8**



**FIGURE 9A**  
**NUCLEOTIDE SEQUENCE OF 4K-6H-NS2/3 (904-1206) ST-4K**  
**(SEQ ID NO. 3)**

```

atgaaaaaga aaaagctcga gcatcacat caccatcaca ctagtgcagg cataaccaa
gtgccgtact tcgtgcgtgc gcaggggctc attcgtgcgt gtatgttggt gcggaaggct
gcgggggggtc attatgtcca aatggccttc atgaagctag ctgcgctgac aggtacgtac
gtttatgacc atctcactcc attgcaggat tggggccacg cgggcctacg agaccttgca
gtggcggttag agcccgtcat cttctctgac atggaggtca agatcatcac ctggggggcg
gacaccgcgg catgcgggga catcatttca ggtctgcccg tctccgctcg aagggaagg
gagatactcc tgggaccggc cgataathtt gaagggcagg ggtggcgact ccttgccccc
atcacggcct actcccaaca gacacggggc ctacttggtt gcatcatcac cagcctcaca
ggccgggaca agaaccaggc cgagggggag gttcaagtgg tctccaccgc tacacaatct
ttcctggcga cctgcgtcaa cggcgtgtgt tggactgtct tccatggcgc cggctcaaag
accttgcccg gcccacaaagg cccaatcacc cagatgtaca ctaatgtgga ccaggacctc
gtcggctggc aggcgcccc tggggcgcg ccatgacac catgcacctg cggcagctcg
gacctctatt tggtcacgag acatgccgac gtcattccgg tgcgccggcg gggcgacagt
agggggagcc tgctctcccc caggcctgtc tctacttga agggctcttc ggggtggcca
ctgctctgcc cttcggggca cgttgtgggc atcttccggg ctgctgtgtg caccggggg
gttgcaaaag cggtggaact catacctgtt gagtctatgg aaactaccat gcggactagt
agcgcttggc gtcaccgca gttcgggtgt aaaaagaaa agtaaggatc c

```

**FIGURE 9B**  
**AMINO ACID SEQUENCE OF 4K-6H-NS2/3 (904-1206) ST-4K**  
**(SEQ ID NO. 4)**

```

MKKKKLEHHH HHHTSAGITK VPYFVRAQGL IRACMLVRKA AGGHYVQMAF MKLAALTGTY    60
VYDHLTPLQD WAHAGLRDLA VAVEPVIFSD MEVKIITWGA DTAACGDIIS GLPVSARRGR   120
EILLGPADNF EGQGWRLAP ITAYSQQTRG LLGCIITSLT GRDKNQVEGE VQVVSTATQS   180
FLATCVNGVC WTVFHGAGSK TLAGPKGPIT QMYTNVDQDL VGWQAPPGAR SMTPCTCGSS   240
DLYLVTRHAD VIPVRRRGDS RGSLLSPRPV SYLKGSSGGP LLCPSGHAVG IFRAAVCTRG   300
VAKAVDFIPV ESMETTMRTS SAWRHPQFGG KKKK                                337

```

FIGURE 10

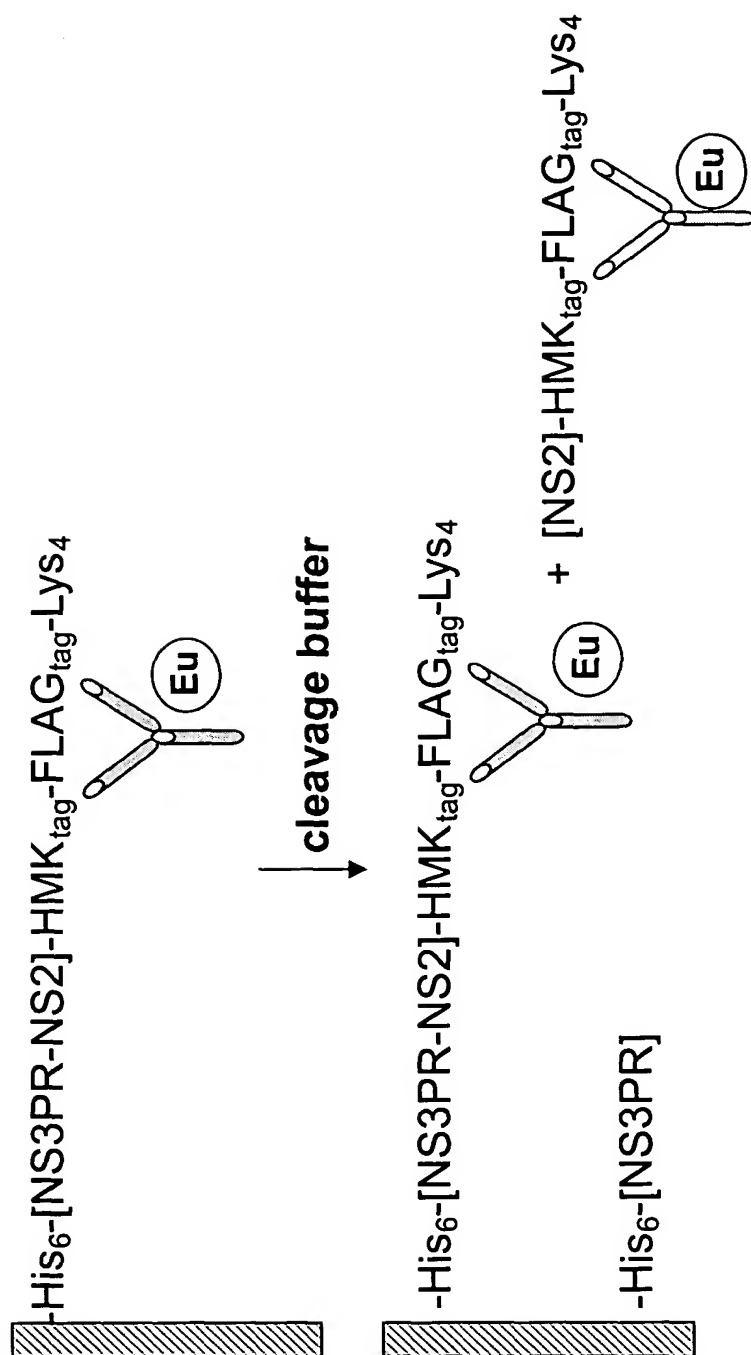




FIGURE 11

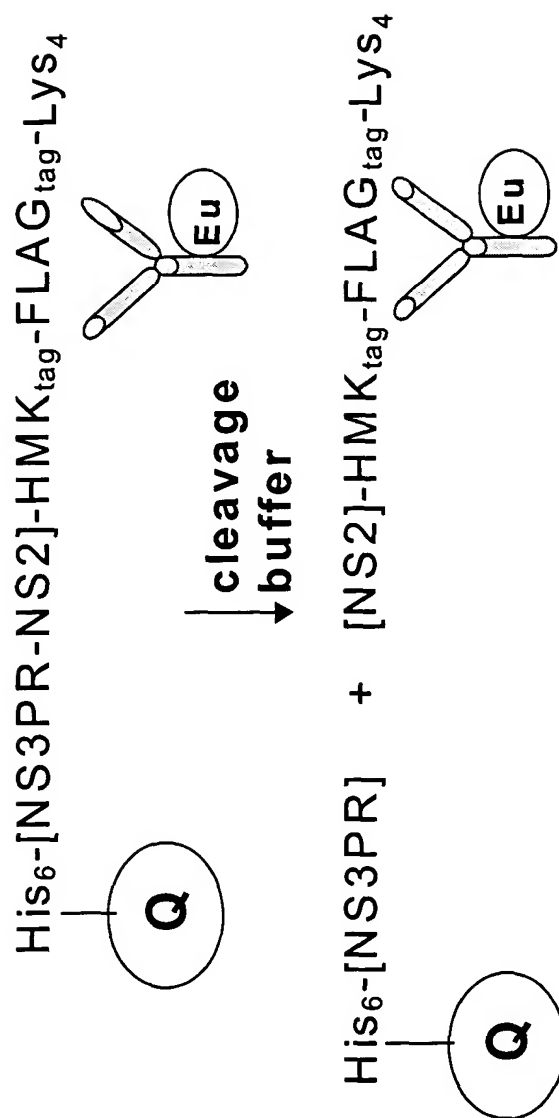


FIGURE 12

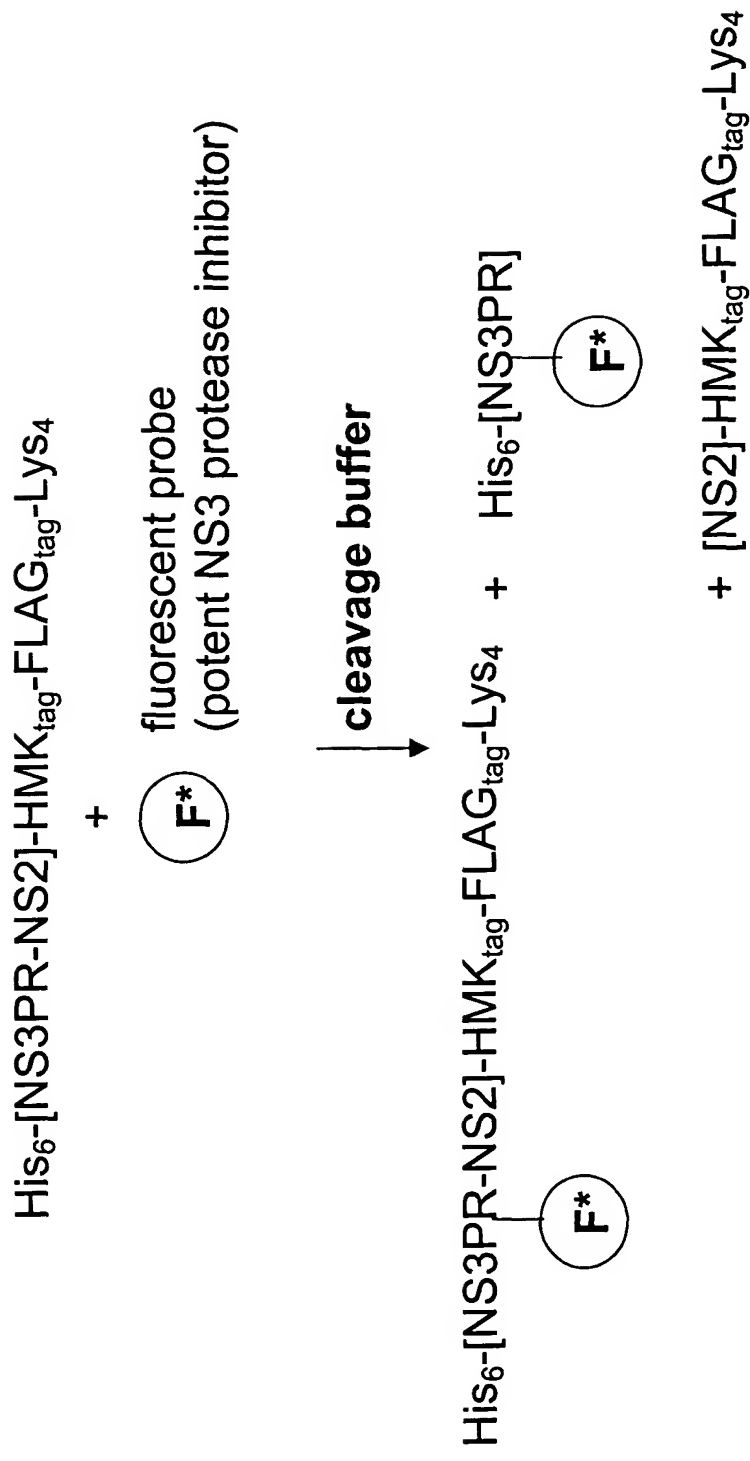


FIGURE 13

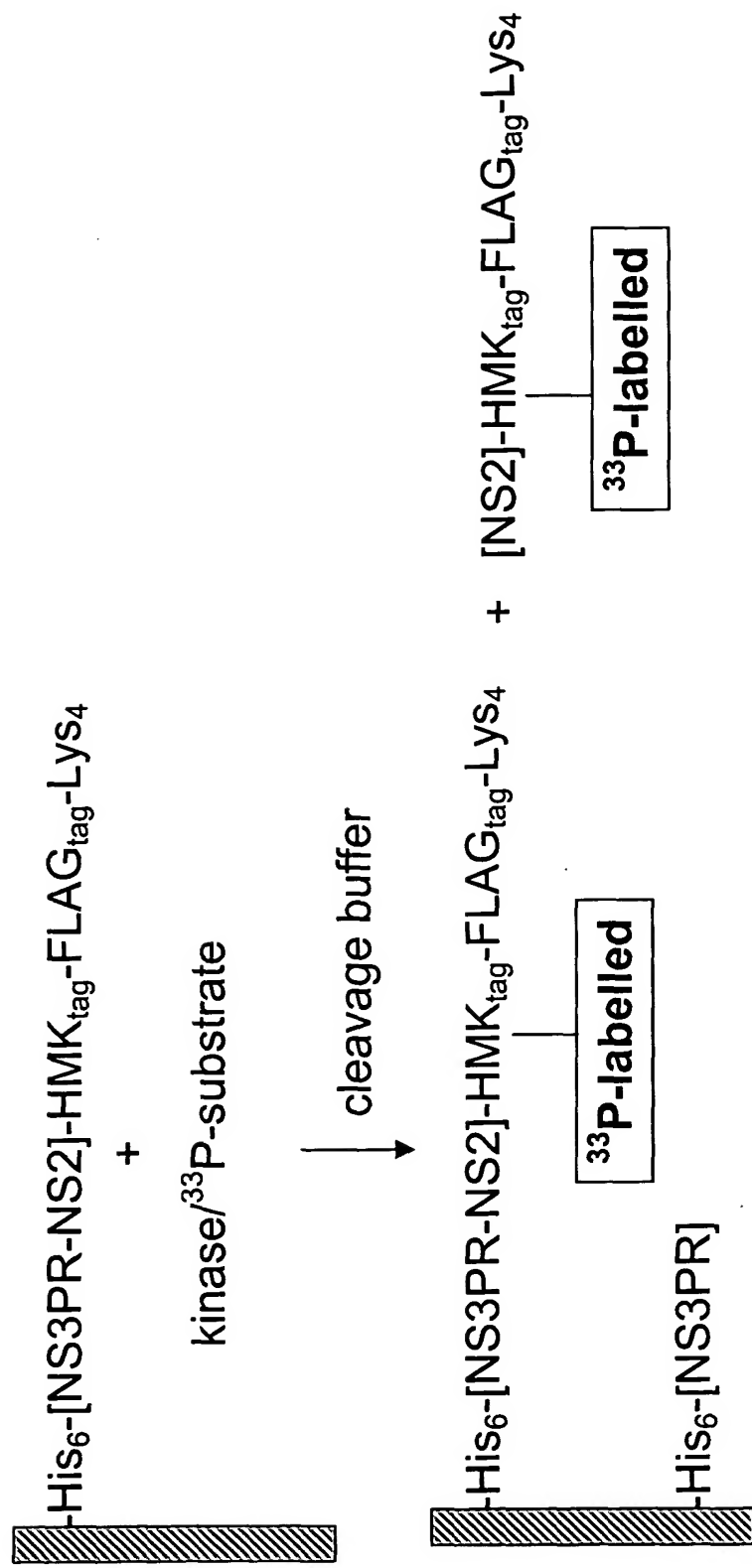


FIGURE 14

